

Amendments to the Claims

This listing of claims will replace all prior versions, and listings, of claims in the application:

Listing of Claims:

1. (Original) A gene sequence of a spacer region between a gene coding 16S rRNA and a gene coding 23S rRNA of *Pectinatus frisingensis* containing a part of the base sequence of the whole base sequence represented by SEQ ID NO: 1.

2. (Currently Amended) A gene sequence of a spacer region between a gene coding 1S rRNA and a gene coding 23S rRNA of *Pectinatus frisingensis*~~is~~frisingensis containing a part of the base sequence or the whole base sequence represented by SEQ ID NO:2.

3. (Currently Amended) An oligonucleotide wherein the gene sequence of a spacer region between a gene coding 16S rRNA and a gene coding 23S rRNA of *Pectinatus frisingensis* has at least one of the following sequence groups or the corresponding complementary sequence:

a. 5'-CCATCCTCTTGAAAATCTC-3' (SEQ ID NO: 5)

b. 5'-~~TCTCRTCTCACAAGTTTGGC~~35'-

TCTCYTCTCACAAGTTTGGC-3' (SEQ ID NO: 6).

4. (Original) A method for detecting *Pectinatus frisingensis*, comprising synthesizing nucleic acids from the gene sequence according to claim 1 to produce a nucleotide, and using said nucleotide as a primer for synthesis of nucleic acids, and treating the nucleic acid by gene amplification to detect the bacteria.

5. (Original) A method for detecting *Pectinatus frisingensis*, comprising synthesizing nucleic acids from the gene sequence according to claim 2 to produce a nucleotide, and using said nucleotide as a primer for synthesis of nucleic acids, and treating the nucleic acid by gene amplification to detect the bacteria.

6. (Original) A method for detecting *Pectinatus frisingensis*, comprising synthesizing nucleic acids from the gene sequence according to claim 1 or the gene sequence according to claim 3 to produce a nucleotide, and a nucleotide sequence coding 16S rRNA gene or *Pectinatus frisingensis* and using said nucleotides as primers for synthesis of nucleic acids, and treating the nucleic acid by gene amplification to detect the bacteria.

7. (Original) The method according to claim 6 wherein the nucleotide sequence coding the 16S rRNA gene of *Pectinatus frisingensis* has the following sequence:

5'-CGTATCCAGAGATGGATATT-3' (SEQ ID NO: 10).

8. (Original) A method for detecting *Pectinatus frisingensis*, comprising synthesizing nucleic acids from the gene sequence according to claim 2 or the gene sequence according to claim 3 to produce a nucleotide, and a nucleotide sequence coding 16S rRNA gene or *Pectinatus frisingensis* and using said nucleotides as primers for synthesis of nucleic acids, and treating the nucleic acid by gene amplification to detect the bacteria.

9. (Original) The method according to claim 8 wherein the nucleotide sequence coding the 16S rRNA gene of *Pectinatus frisingensis* has the following sequence:

5'-CGTATCCAGAGATGGATATT-3' (SEQ ID NO: 10).

Appln. No. 10/600,642
Amd. dated June 15, 2006
Reply to Office Action of May 16, 2006

IN THE SEQUENCE LISTING

Please substitute the attached Sequence Listing
section for the originally filed Sequence Listing.